



Taking the tree seriously: Sievers' Law in Iranian?

44th ECIEC

München
June 21, 2025

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1. Introduction

1. Taking the tree seriously:

A phylogenetic / cladistic perspective

First reconstruct all intermediary nodes before proceeding to PIE

Problem: no general agreement about most intermediary nodes
higher than primary branches

Italo-Celtic? Balkan IE? Graeco-Aryan? Indo-Slavic?

More or less secure: Indo-Iranian, Balto-Slavic

⇒ Reconstruct first Proto-Indo-Iranian (PIIr.), then proceed to PIE

1. Introduction

2. Sievers' Law (SL) based on Sievers (1878) ..., cf. Byrd 2010; 2015

*j > *i; *w > *u /XC._V after virtually heavy syllables (X = VR, V:)
syllable boundary morphologically conditioned, hence for suffix-initial *j/w

Not relevant for primarily syllabic *i, distinct from *j
= no converse of SL (as in Germanic)

E.g., “Locatival” Suffix *i-(j)o- (Mayrhofer 1986: 161, 165f.) or < *-iHo-
vs. simple *-jo- and *-j-o- (from i-stems)

Cf. *kʷtur-íjo-, *diw-ijó-, *ph₂tr-ijo- vs. *médʱ-jo-, *néw-jo-, *sew-jó-, *h₁sṇt-jó-
> Ved. turīya-, div̥yá-, pítr̥yā- vs. mādhyā-, návya-, savyá-, satyá-

1.2 SL in Indo-Aryan (Early Vedic)

$y > i(y) <y, iy>$, $w > u(w) <v, uv>$

Ved. *dev_{-i}yās*, *pārś_uv-á-*, *pátn_{-i}yā*, *ár_iy-a-*, *rāj_{-i}yá-*; *mīdh_{-u}vāṁs-*, *dās_{-u}vāṁs-*

Originally not after obstruent clusters (Schindler 1977)

cf. *mats-ya-*, *-cákṣ-ya*, *tuch-yá-* (*vak-ṣyá-*, *yák-ṣva*, *yuk-ṣvā*, *yuk-tvā*)

would this have included PIE *VHT (> later V:t)?

Extended to (some) -CY° morphs in Vedic (Byrd 2010):

-bhyas ~ *-bh_iyas*, *-dhvam* ~ *-dh_uvam*, *-tva-* ~ *-t_uva-*

but always *-syá-/ṣyá-, -tvā*

Lost by late RV due to general *iy, uv > y, v /C_V* (except C = TR)

(but maybe not in all dialects of IA, cf. Pkt. *sūria-*, *āriya-* ~ *sujja-*, *ajja-*)

2. Evidence for SL in Iranian

Problem: Information about syllabicity obscured by

*y, *w > OP <iy>, <uv>; Avestan (transmission) <ii>, <uu>

Syllable count in Avestan (Gathic) metrical texts

Early consonantal changes triggered by following *y/w:

- Common Iranian fricativization $*tC > \theta C$ etc., cf. $*satya- > *ha\theta ya-$
- Dialectal Old Iranian $*čy > šy > \text{YAv. } \acute{s}, \text{ OP } šy$; cf. $*čyawa- > šauua-/šiyava-$
 $\text{YAv. } *jy > *žy > *z > \check{z}$, cf. $*družya- > druža-$
- Old Persian $*θy > šy$, cf. $*ha\theta ya- > hašiya-$

[Not reliable: Av. post-fricative $*w > \beta/b/p$; $*hy > xii/\acute{j}h$, $*hw > x^v/\eta^vh$]

2.1 Evidence for SL in Avestan

Sievers (1878): Wrong examples = all with old $*-i(j)V-$

Schindler (1977: 58f.): 3 relics

- *məṇdāidiiāi* Y 53.6 {mandā-diyāi}
- *mər³ng³duiiē* Y 44.8 {mərng-duwai}
- PN *huuō.guua-* 4x 3syll. {haugu.a-} < $*hau=gw-a-$ from $*hugu-$

Beekes (1988: 99f.): “most suffixes have a fixed form”

frequent /-ia-/ might be /-i?a-/, hence only 2 examples:

/Haugua-/ < $*hau-gv-a-$

fem. *vahuiiā-* /vahv-iā-/ “must be due to” SL (but /būmyā-!):

no, rather /wahu-yā-/ (already Schmidt 1889: 213 n.; metrically supported)

2.1 Evidence for SL in Avestan

1) *məṇdāidiiāi* Y 44.8 = 4 syllables, {məndādiyāi}? vv. ll. *māṇ°*, *°daid°*

Hardly probable against *mərəngəidiiāi* {mərng-dyāi} 46.11;

vōizdiiāi {waiz-dyāi} 43.13; *mərqždiiāi* {mərnž-dyāi} 44.14;

būždiiāi {būž-dyāi} 44.17; *sūidiiāi* {sū-dyāi} 44.2; 49.3; *sazdiiāi* {saz-dyāi} 30.2;

dazdiiāi {daz-dyāi} 44.1; *āždiiāi* {až-dyāi} 51.17

-ā- not really secure, cf. *māṇcā daidiiāi* Y 31.5, *daidiiāi* Y 51.20

Rather catalectic (or for **mənā. dāidiiāi*, Werba 1986: 335?)

2) *mərəngəduuiē* 53.6 {mərng-duwai}?

against *θβarōždūm* {θwarž-dwam} etc.

Probably rather irregular meter (Y 53 generally less regular)

2.1 Evidence for SL in Avestan

3) OAv. *huuō.guua-* (Y 46.16f.; 51.17f.) family name of *frasaōštra-*, *dājāmāspa-* trisyllabic < **hau=gu(w)a-* vs. YAv. *huuōuuua-*, *huuōuuī-* < **=yw-a-/ī-* < **hau=gw-a-* derived from *hugu-* (vgl. Ved. *sugú-*), cf. Vedic *náva-gva-* etc.

Unsure: rather **huwa=gw-a?* (cf. Nyberg 1938; Hoffmann 1974)

metrically (cf. Kümmel 2018) $\cup \cap$ better than – \cup at all four places

<*huuō*> unexpected from **hau=*, cf. OAv. *haōzaθβa-*; YAv. *haōmananjha-*, *haōsrauuah-*, *haōsrauuanjha-*, *haōšianjhā-*

Only one dubious parallel: OAv. *huuō.yžaθa-* YH 38.3, if < **hau=gžaθa-* but better < **hu=wagžaθa-* (Narten 1986: 219ff.; Hintze 2007: 236f.)

°*uuō.C* normally < *°*waC*: *drəguuō.d°* < **drugwad-*, *druuō.gaēθā* < **druwa=g°* ...

2.1 Evidence for/against SL in Avestan

Comparatives

Weak evidence: <jii> (vs. ž), syllable count (?) in YAv.

YAv. *aōjiiehiš* Yt 13; *nazdiiō* Yt 17.21; *rəŋjiiō* Y 10.19; ⁺*drājiiō* P
but cf. also *yūjia-* < **yujya-*

Counterexamples stronger:

OAv. *"ruuāⁱdiiā* {rwādyāh} 34.6

nāⁱdiiāŋhām {nādyāhām} 34,8

rāⁱniiō.skər^oi tīm {rānyaskərtīm} 44.6; 47.3; 50.2

YAv. *tqśiiā*, *tqśiiehī-* ‘stronger’ < **tanč-yah-* (cf. *taŋcišta-*)

2.1 Evidence against SL in Avestan

No disyllabic variants of endings $*-byā$, $*-byah$, $*-dwai$, $*-dwam$

OAv. always $-biiā$, $-biiō$, $-dūm$ = $\{-byā, -byah; -dwam\}$

$-ōibiiō$, $-ōibiiā$, $-ō.d^b biiō$

$θβarōždūm$ {θwarž-dwam}; $sāzdūm$ {sāz-dwam}; $-uuōizdūm$ {waiz-dwam};

$θrāzdūm$ {θrāz-dwam}; $dazdūm$ {daz-dwam}

[Yav. $-δβe$, $-δβəm$ < $*-dwai$, $*-dwam$]

Gerundive only $-θβa-$ < $*-twa-$ (vs. Vedic $-tva-$ ~ $-t_uva-$)

$jqθβa-$, $mqθβa-$, $scqθβa-$, $vqθβa-/vqθβā-$, $dqstuua-$ {dans-twa-}

$pōiθβa-$, $vōiθβa-$, $staōθβa-$, $xšnaōθβa-$; $yaš^{\circ}θβa-$, $vax^{\circ}θβa-$

But -TY° not relevant for Byrd's version of SL

2.1 Evidence against SL in Avestan

Perfect participle only {-wāh-}:

OAv. *nqsuuā* {nans-wāh}; YAv. *yōiθβāh-* < **yayt-wāh-*, *-vaōxvāh-* < **wawk-wāh-*

Possessive only {-want-}: disyllabic *astuuā(ŋ)t-* {astwa(n)t-}, *āfənt-* < **āp-want-*

Feminine participle *-qiθiiā-* < *-*anθ-yā-* ~ *-aiṇtiiā-* < *-*ant-iyā-*

dauuqiθiiā patqiθiiā, bauuqiθiiāica būšiiqiθiiāica, druuqiθiiāt, raxšiiqiθiiā
vs. *vanaiṇtiiāsca, hunuuaiṇtiiā* (cf. °*aiθiiā-* ~ °*aitiiā-*)

Further cases with y

mərqsiiāt {mərnś-yāt} Y 45.1 < **mərnč-yā-t*

aōjiaēšū {aujyaišu} Y 46.12: alleged meaning ‘to be praised’ insecure
patronymic **aujy-a-*? (Kellens/Pirart)

2.1 Evidence against SL in Avestan

Further cases with *y*

sar^oi diiaiiā {sard-(i?)yayāh} Y 33.9 ‘companions/rivals’ (?) < **sard-ya-*
qiθiiā Yt 10.28 < **anθyā-* ‘doorpost’ < **ant-yā-* (cf. Ved. *ātā-*)

pascqiθiiā ‘northern’ < **pasčānθya-* < **pasčā=ant-yā-* (?)

būmiiā {būm-yāh} Y 32.3

uzūiθiiōi {uz=ūθyai} Y 46.5

āfiiā- ‘reach’ < **āf-ya-* = Khot. *eh-*, Oss. *af-*

**apāčya-* > **apāś(y)a-* > YAv. *apaśa*, Bactrian *abaš* ‘back’, Sogd. *pāš* ‘north’

**frāčya-* > **frāś(y)a-* > YAv. *fraśa* ‘forth’, Sogd. *frāš* ‘south’

2.1 Evidence against SL in Avestan

Further cases with *w*

ār^ozūuā {ārzwā} ‘rightness’ Y 33.1 < *ārzw-a- ← *ərz-u-

PN *bēṇduua-* {bandwa-} Y 49.1f.

rōiθβa-/raēθβa- ‘mix’ < *raiθwa- < *rait-wa-

haōzqθβa- < *hau=zanθw-a- ← *hu=zan-tu-

vazduuar^o {wazd-war} Y 31.21

yāθβ- ‘sorcerer’ < *yā-tw- ~ yā-tu-

[*dāhūuā* {dā-hwa} Y 50.2; *var^ošuuā* {war-šwa} Y 53.3

kamnafšuua- {kamna=fšwā} 46.2]

2.1 Evidence against SL in Avestan

Disyllabic {i.V}, {u.V} always original

Suffix *-i.(j)o-: {wāstr-i.a-, parw-i.á-, márt-i.a-, napt-i.a-, staum-i.a- ...}
cf. {záw-i.a-, dwit-í.a- ...}

Laryngeal hiatus *i/uHV: {ərž=jiH-ai, uz-HiHər-dyāi, haxti-Hāh;
ahu-Hāh, hizuH-ā, tanuH-ah}
cf. {friH-a-, tuH-ám, búH-at, húH-ar, huH-ánh, zuH-áya-, mru(H).-Hai}

Word boundary (= *H?): {pari=(H)augža, pati=
wi=adarsam; hu=(H)apah-, hu=āθra-}

Morphological boundary: {sru.-ai, a-sru.-ātam}

2.2 Further evidence against SL in Iranian

Later stages: no detectable relics of inherited forms with SL

Counterexamples showing non-application at Old Iranian stage

**dauć-ya-* ‘milk’ > MP *dōš-*, Oss. D. *doc-*

**xrauc-ya-* ‘cry, shout’ (YAv. *xraōsiiā-*) > **xraušya-* ⇒ NP *xurōš-*

**asmāka-* → **ahmāč-ya-* > **ahmāś(y)a-* ‘our’ > Wanetsi *moš*

beside **ahmāč-iya-ka-* > **amājyaka-* > Khot. *māja-*

**snāf-ya-* ‘bathe’ > Khot. *ysänāh-* (⇒ Toch. *sanapa-*, Dragoni 2023)

? **tūr-ya(ka)-* > Av. *tūriiā-* ‘curdled’, MP <tyl(k)> *tīr(ag)* ‘c., solid; turbid; dark’
cf. Av. *tūri-* ‘curdled (cheese)’; Greek *tūrós*

2.2 Further evidence against SL in Iranian

Counterexamples showing non-application at Old Iranian stage

**tarx-w-* (~ **tark-u-*) ‘turning’ > Pashto *trax* ‘armpit’ (Kreidl 2025: 237ff.)

**parcu-* → **pārcw-a-* ‘Persia, Persian’ > OP *pārsa-*

**parcu-* → **pārcw-a-* ‘side’ (= Ved. *pārśuvá-*) > **pārswa-* > Oss. *fars*

**sraku-/sraxw-a-* → **srāxw-a-* ‘side’ > Pashto *rox*

?**swa=tāw-ya-* ‘ruler, lord’ > **hwatāwya-* > Bactrian χοαδηο, MP *xʷadāy*

[**swai-θya-* ‘own’ > MP *xʷēš*, Oss. D. *xec-*

**swar-ti-* ~ **swar-θy-* ‘food’ > Oss. D. *xwælcæ*

**gā-θw-* (~ **gā-tu-*) → OP *gāθu-* ‘place; throne’, MP *gāh(ūg)*]

2.3 A special case: *TRy

Sequence TRY synchronically impossible

PIE and PIIR. solution: *TRY

cf. Ved. *pitṛvya-*, *bhrātṛvya-*, *cakṛ-vān*, *jaghan-vān*, *jagam-yāt*

but **ṛy* > *riy* in *cakri-yās* etc. (cf. *mri-yá-* = Av. *miriiia-* < **mṛ-yā-*)

Av. *tūriiia-*, *brātruiiia-/brātūriia-*, *ātriiia-* < *(*p*)*tərwya-*, **brātərwya-*, **ātərya-*

But *TRiy, *TRuw in some cases ~ *TR(i/u)-:

Av. *jaymiiqm*, *baβriiīqn*; OP *caxriyā* ‘would have done’;

Av. *jaynuuāh-*; gen. sg. *baršnuuō* < **barznuw-as*

generally *-nuw-V ~ *-naw-, *-nu- (as in Vedic)

Analogical preservation of TR \Rightarrow only *i(y)*, *u(w)* possible

2.4 Conclusion: SL in Iranian and Indo-Iranian?

No reliable evidence for former existence of SL in Iranian
(except analogical *iy*, *uw* after TR)

Fitting typological profile tolerating more complicated clusters, onsets and codas in Iranian, less preference for “optimal” syllables

Cf. Av. initial /fšt, fsr, fθr, str, xšw, db, tk, (p)t/
internal /fstr, rštr/; final /xš, fš, xšt, st, št, ršt, rt/
mostly inherited (hard to explain as innovations)

What to reconstruct for Proto-Indo-Iranian?

PIIr. otherwise typologically more similar to Iranian than to Sanskrit:
more clusters, no geminates

3. Possible solutions

Solution 1: SL was not PIIr. and hence not PIE,
situation preserved in Iranian (and elsewhere?)

SL = Indo-Aryan innovation (parallel in Germanic)

Fits general IA tendency to optimize syllables incl. onsets
vs. different tendencies in much of Iranian (cf. Kümmel 2014)

Rules for CjV/CiV not very stable diachronically

Cf. Latin *CjV > CiV (> Romance *CjV): **meðjos* > *me.di.us* > **medjs*

Old Persian *CyV > CiYV (against MP)

Germanic *CijV > Gothic CjV, West Germanic *(C)CjV

3. Possible solutions

Solution 2: SL was PIE and PIIr. (more restricted than in Indic/Germanic)

= Loss of variation in Iranian (and other branches)
but with preservation of original/primary $*-i.V-$, how?

a) Syncope in SL-based $*-i(y)V$ vs. primary $*-iXa-$
would presuppose long preservation of $*X = *H$?

Or some equivalent distinction like $*i.yV$ vs. $*i.\emptyset V$ [$i?V$]?

b) Generalization of shorter variant in SL-cases

How could contrast of nominal $*-ya-$ vs. $*-i ya-$ be preserved?
Functionally different enough? Some confusion expected

4. Final conclusions and outlook

No evidence for Sievers' Law in Iranian + preserved contrast $*CyV$: $*Ci_yV$
⇒ Conflict with Indic

State at higher node = Proto-Indo-Iranian:

1) Either = Iranian, no SL

SL parallel innovation in Indic, Germanic, and ?

2) Or = Indic, loss of SL in Iranian

only possible if SL-triggered $*i(y)V$ different from primary $*i(X)V$
then what was $*X$?

Only if 2, SL might be PIE (depending on the other nodes)

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<³c³tyh> *āzādīh* <^{*}āzātiyaθwam

Thank you for your attention!

Vielen Dank für Ihre Aufmerksamkeit!